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## RECORDATION FORM COVER SHEET

U.S. Department of Commerce  
Patent and Trademark Office

OMB No. 0251-0011 (exp. 02-01)

## PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies): Date  
 TZU-FANG HUANG AUGUST 15, 2000  
 YUNG-CHENG LU OCTOBER 22, 2000  
 LI-QUN XIA JULY 20, 2000  
 ELIE YIEH JULY 31, 2000  
 WAI-FAN YAU JULY 20, 2000  
 DAVID W. CHEUNG JULY 19, 2000  
 RALF B. WILLECKE JULY 20, 2000  
 KUOWEI LIU JULY 25, 2000  
 JU-HYUNG LEE JULY 19, 2000  
 FARHAD K. MOGHADAM JULY 25, 2000  
 YEMING JIM MA SEPTEMBER 26, 2000

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: See Above and the Attached

## 2. Name and address of receiving party(ies):

Name: Applied Materials, Inc.Internal Address: P.O. Box 450-A

Street Address: \_\_\_\_\_

City: Santa Clara State: CA Zip: 95052Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or registration number(s): «SerialNo»

If this document is being filed together with a new application, the execution date of the application is: HEREWITH (Date of Filing)

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent CounselInternal Address: APPLIED MATERIALS, INC.Street Address: P.O. Box 450-ACity: Santa Clara State: CA Zip: 950526. Total number of applications and patents involved: 17. Total fee (37 C.F.R. 3.41) \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account50-1074/2592.C8/DSMLOW K/JW

## 8. Deposit account number:

50-1074/2592.C8/DSMLOW K/JW

## DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

ROBERT W. MULCAHY, Reg. No. 25,436  
Name of Person Signing

Signature

Jan. 27, 2004  
DateTotal number of pages including cover sheet, attachments and document: 34

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents, MAIL STOP PATENT APPLICATION  
 P.O. BOX 1450  
 Alexandria, VA 22313-1450

# COPY

Case #AMAT/2592.P3/PDD/KPU8/JW

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
of Inventors:

1)	TZU-FANG HUANG 5431 Liquian Dr. San Jose, CA 95138	2)	YUNG-CHENG LU 3671 Greenlee Dr., #3 San Jose, CA 95117
3)	LI-QUN XIA 5358 Carryback Ave. San Jose, CA 95111	4)	ELLIE YIEH 5888 Pistoria Way San Jose, CA 95138
5)	WAI-FAN YAU 158 Gretel Ln. Mountain View, CA 94040	6)	DAVID W. CHEUNG 235 Billingsgate Ln. Foster City, CA 94404
7)	RALF B. WILLECKE 2250 Monroe St. #336 Santa Clara, CA 95050	8)	KUOWEI LIU 163 N. San Tomas Aquino Rd. Campbell, CA 95008
9)	JU-HYUNG LEE 65 Shelley Ave. Campbell, CA 95008	10)	FARHAD K. MOGHADAM 15440 Via Colina Saratoga, CA 95010
11)	YEMING JIM MA 3707 Poinciana Dr., #133 Santa Clara, CA 95051		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

### METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA

for which application for Letters Patent in the United States was filed on 4/19/2000 under  
Serial No. 09/533,461, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:


1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>Aug 15<sup>th</sup></u> , 2000	 _____ TZU-FANG HUANG
2)	_____, 2000	_____ YUNG-CHENG LU
3)	_____, 2000	_____ LI-QUN XIA
4)	_____, 2000	_____ ELLIE YIEH
5)	_____, 2000	_____ WAI-FAN YAU
6)	_____, 2000	_____ DAVID W. CHEUNG

# COPY

- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
- 9) \_\_\_\_\_, 2000 \_\_\_\_\_  
JU-HYUNG LEE
- 10) \_\_\_\_\_, 2000 \_\_\_\_\_  
FARHAD K. MOGHADAM
- 11) \_\_\_\_\_, 2000 \_\_\_\_\_  
YEMING JIM MA

# COPY

Case #AMAT/2592.P3/PDD/KPU8/JW

**ASSIGNMENT FOR APPLICATION FOR PATENT****WHEREAS:****Names and Addresses  
of Inventors:**

1)	TZU-FANG HUANG 5431 Liquirian Dr. San Jose, CA 95138	2)	YUNG-CHENG LU 3671 Greenlee Dr., #3 San Jose, CA 95117
3)	LI-QUN XIA 5358 Carryback Ave. San Jose, CA 95111	4)	ELLIE YIEH 5888 Pistoria Way San Jose, CA 95138
5)	WAI-FAN YAU 158 Gretel Ln. Mountain View, CA 94040	6)	DAVID W. CHEUNG 235 Billingsgate Ln. Foster City, CA 94404
7)	RALF B. WILLECKE 2250 Monroe St. #336 Santa Clara, CA 95050	8)	KUOWEI LIU 163 N. San Tomas Aquino Rd. Campbell, CA 95008
9)	JU-HYUNG LEE 65 Shelley Ave. Campbell, CA 95008	10)	FARHAD K. MOGHADAM 15440 Via Colina Saratoga, CA 95010
11)	YEMING JIM MA 3707 Poinciana Dr., #133 Santa Clara, CA 95051		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

**METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA**

for which application for Letters Patent in the United States was filed on 4/19/2000 under Serial No. 09/533,461, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) \_\_\_\_\_, 2000 \_\_\_\_\_  
TZU-FANG HUANG

2) 10/22, 2000 Yung-Cheng Lu  
YUNG-CHENG LU

3) \_\_\_\_\_, 2000 \_\_\_\_\_  
LI-QUN XIA

4) \_\_\_\_\_, 2000 \_\_\_\_\_  
ELLIE YIEH

5) \_\_\_\_\_, 2000 \_\_\_\_\_  
WAI-FAN YAU

6) \_\_\_\_\_, 2000 \_\_\_\_\_  
DAVID W. CHEUNG

- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
- 9) \_\_\_\_\_, 2000 \_\_\_\_\_  
JU-HYUNG LEE
- 10) \_\_\_\_\_, 2000 \_\_\_\_\_  
FARHAD K. MOGHADAM
- 11) \_\_\_\_\_, 2000 \_\_\_\_\_  
YEMING JIM MA



# COPY

Case #AMAT/2592.P3/PDD/KPU8/JW

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
of Inventors:

1)	TZU-FANG HUANG 5431 Liquian Dr. San Jose, CA 95138	2)	YUNG-CHENG LU 3671 Greenlee Dr., #3 San Jose, CA 95117
3)	LI-QUN XIA 5358 Carryback Ave. San Jose, CA 95111	4)	ELLIE YIEH 5888 Pistoria Way San Jose, CA 95138
5)	WAI-FAN YAU 158 Gretel Ln. Mountain View, CA 94040	6)	DAVID W. CHEUNG 235 Billingsgate Ln. Foster City, CA 94404
7)	RALF B. WILLECKE 2250 Monroe St. #336 Santa Clara, CA 95050	8)	KUOWEI LIU 163 N. San Tomas Aquino Rd. Campbell, CA 95008
9)	JU-HYUNG LEE 65 Shelley Ave. Campbell, CA 95008	10)	FARHAD K. MOGHADAM 15440 Via Colina Saratoga, CA 95010
11)	YEMING JIM MA 3707 Poinciana Dr., #133 Santa Clara, CA 95051		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

### METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA

for which application for Letters Patent in the United States was filed on 4/19/2000 under Serial No. 09/533,464, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

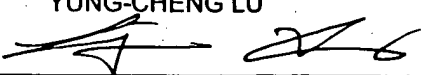
1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	_____	2000	_____	TZU-FANG HUANG
2)	_____	2000	_____	YUNG-CHENG LU
3)	_____	2000		LI-QUN XIA
4)	_____	2000	_____	ELLIE YIEH
5)	_____	2000	_____	WAI-FAN YAU
6)	_____	2000	_____	DAVID W. CHEUNG

**COPY**



- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
- 9) \_\_\_\_\_, 2000 \_\_\_\_\_  
JU-HYUNG LEE
- 10) \_\_\_\_\_, 2000 \_\_\_\_\_  
FARHAD K. MOGHADAM
- 11) \_\_\_\_\_, 2000 \_\_\_\_\_  
YEMING JIM MA

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	TZU-FANG HUANG 5431 Liquian Dr. San Jose, CA 95138	2)	YUNG-CHENG LU 3671 Greenlee Dr., #3 San Jose, CA 95117
3)	LI-QUN XIA 5358 Carryback Ave. San Jose, CA 95111	4)	ELLIE YIEH 5888 Pistoria Way San Jose, CA 95138
5)	WAI-FAN YAU 158 Gretel Ln. Mountain View, CA 94040	6)	DAVID W. CHEUNG 235 Billingsgate Ln. Foster City, CA 94404
7)	RALF B. WILLECKE 2250 Monroe St. #336 Santa Clara, CA 95050	8)	KUOWEI LIU 163 N. San Tomas Aquino Rd. Campbell, CA 95008
9)	JU-HYUNG LEE 65 Shelley Ave. Campbell, CA 95008	10)	FARHAD K. MOGHADAM 15440 Via Colina Saratoga, CA 95010
11)	YEMING JIM MA 3707 Poinciana Dr., #133 Santa Clara, CA 95051		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

**METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA**for which application for Letters Patent in the United States was filed on 4/19/2000 under  
Serial No. 09/533,461, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

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1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

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1) \_\_\_\_\_, 2000 \_\_\_\_\_  
TZU-FANG HUANG

2) \_\_\_\_\_, 2000 \_\_\_\_\_  
YUNG-CHENG LU

3) \_\_\_\_\_, 2000 \_\_\_\_\_  
LI-QUN XIA

4) 7/31/00, 2000   
ELLIE YIEH

5) \_\_\_\_\_, 2000 \_\_\_\_\_  
WAI-FAN YAU

6) \_\_\_\_\_, 2000 \_\_\_\_\_  
DAVID W. CHEUNG

**COPY**

- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
- 9) \_\_\_\_\_, 2000 \_\_\_\_\_  
JU-HYUNG LEE
- 10) \_\_\_\_\_, 2000 \_\_\_\_\_  
FARHAD K. MOGHADAM
- 11) \_\_\_\_\_, 2000 \_\_\_\_\_  
YEMING JIM MA

# COPY

Case #AMAT/2592.P3/PDD/KPU8/JW

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
of Inventors:

1)	TZU-FANG HUANG 5431 Liquian Dr. San Jose, CA 95138	2)	YUNG-CHENG LU 3671 Greenlee Dr., #3 San Jose, CA 95117
3)	LI-QUN XIA 5358 Carryback Ave. San Jose, CA 95111	4)	ELLIE YIEH 5888 Pistoria Way San Jose, CA 95138
5)	WAI-FAN YAU 158 Gretel Ln. Mountain View, CA 94040	6)	DAVID W. CHEUNG 235 Billingsgate Ln. Foster City, CA 94404
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NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

# COPY

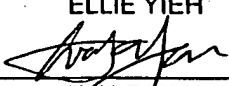
1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

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1)	_____	2000	_____	TZU-FANG HUANG
2)	_____	2000	_____	YUNG-CHENG LU
3)	_____	2000	_____	LI-QUN XIA
4)	_____	2000	_____	ELLIE YIEH
5)	July 20 <sup>th</sup>	2000		WAI-FAN YAU
6)	_____	2000	_____	DAVID W. CHEUNG



**COPY**

- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
- 9) \_\_\_\_\_, 2000 \_\_\_\_\_  
JU-HYUNG LEE
- 10) \_\_\_\_\_, 2000 \_\_\_\_\_  
FARHAD K. MOGHADAM
- 11) \_\_\_\_\_, 2000 \_\_\_\_\_  
YEMING JIM MA

# COPY

Case #AMAT/2592.P3/PDD/KPU8/JW

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
of Inventors:

1)	TZU-FANG HUANG 5431 Liquirian Dr. San Jose, CA 95138	2)	YUNG-CHENG LU 3671 Greenlee Dr., #3 San Jose, CA 95117
3)	LI-QUN XIA 5358 Carryback Ave. San Jose, CA 95111	4)	ELLIE YIEH 5888 Pistoria Way San Jose, CA 95138
5)	WAI-FAN YAU 158 Gretel Ln. Mountain View, CA 94040	6)	DAVID W. CHEUNG 235 Billingsgate Ln. Foster City, CA 94404
7)	RALF B. WILLECKE 2250 Monroe St. #336 Santa Clara, CA 95050	8)	KUOWEI LIU 163 N. San Tomas Aquino Rd. Campbell, CA 95008
9)	JU-HYUNG LEE 65 Shelley Ave. Campbell, CA 95008	10)	FARHAD K. MOGHADAM 15440 Via Colina Saratoga, CA 95010
11)	YEMING JIM MA 3707 Poinciana Dr., #133 Santa Clara, CA 95051		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

### METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA

for which application for Letters Patent in the United States was filed on 4/19/2000 under Serial No. 09/533,461, executed on even date herewith; and

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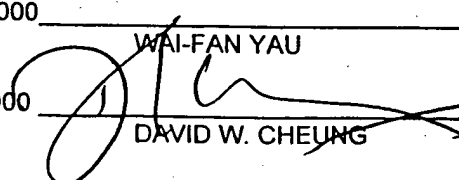
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YUNG-CHENG LU

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LI-QUN XIA

4) \_\_\_\_\_, 2000 \_\_\_\_\_  
ELLIE YIEH

5) \_\_\_\_\_, 2000 \_\_\_\_\_  
WAI-FAN YAU

6) 7/19/, 2000  \_\_\_\_\_  
DAVID W. CHEUNG

# COPY

- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
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3)	_____	, 2000	_____	LI-QUN XIA
4)	_____	, 2000	_____	ELLIE YIEH
5)	_____	, 2000	_____	WAI-FAN YAU
6)	_____	, 2000	_____	DAVID W. CHEUNG

# COPY



- 7) 7/20, 2000 Ralf Willecke  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
- 9) \_\_\_\_\_, 2000 \_\_\_\_\_  
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- 10) \_\_\_\_\_, 2000 \_\_\_\_\_  
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- 11) \_\_\_\_\_, 2000 \_\_\_\_\_  
YEMING JIM MA

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Case #AMAT/2592.P3/PDD/KPU8/JW

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Names and Addresses  
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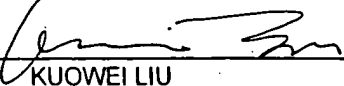
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6)	_____	2000	_____	DAVID W. CHEUNG

**COPY**

- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) 7/25 \_\_\_\_\_, 2000 \_\_\_\_\_  
  
KUOWEI LIU
- 9) \_\_\_\_\_, 2000 \_\_\_\_\_  
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YEMING JIM MA

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Case #AMAT/2592.P3/PDD/KPU8/JW

## ASSIGNMENT FOR APPLICATION FOR PATENT

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Names and Addresses  
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6)	_____	2000	_____	DAVID W. CHEUNG

**COPY** 

- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
- 9) 2/19/00, 2000 *Ju Hyung* \_\_\_\_\_  
JU-HYUNG LEE
- 10) \_\_\_\_\_, 2000 \_\_\_\_\_  
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NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

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2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

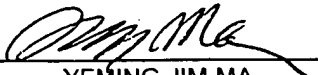
3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)		, 2000		TZU-FANG HUANG
2)		, 2000		YUNG-CHENG LU
3)		, 2000		LI-QUN XIA
4)		, 2000		ELLIE YIEH
5)		, 2000		WAI-FAN YAU
6)		, 2000		DAVID W. CHEUNG

**COPY**

- 7) \_\_\_\_\_, 2000 \_\_\_\_\_  
RALF B. WILLECKE
- 8) \_\_\_\_\_, 2000 \_\_\_\_\_  
KUOWEI LIU
- 9) \_\_\_\_\_, 2000 \_\_\_\_\_  
JU-HYUNG LEE
- 10) \_\_\_\_\_, 2000 \_\_\_\_\_  
FARHAD K. MOGHADAM
- 11) Sept. 26, 2000   
YEMING JIM MA

**COPY**

Atty. Dkt. No. AMAT/2592.P3/PDD/KPU8/JW

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

**INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA**

**SPECIFICATION IDENTIFICATION**

The specification of which:

- ☐ is attached hereto
- ☒ was filed on April 19, 2000, under Serial No. 09/553 461, executed on even date herewith;  
or
- ☐ Express Mail No.(as Serial No. not yet known)  
and was amended on \_\_\_\_\_ (if applicable)
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_  
filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

### PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:

Application No:

Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
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# COPY

Serial No.	Filing Date	Status		
		Patented	Pending	Abandoned
09/021,788	02/11/98		X	
09/114,682	07/13/98		X	
09/162,915	09/29/98		X	
09/185,555	11/04/98		X	
09/247,381	02/10/99		X	

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I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

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Peter J. Sgarbossa	Registration No. 25,610
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Michael L. Sherrard	Registration No. 28,041
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Raymond R. Moser, Jr.	Registration No. 34,682
B. Todd Patterson	Registration No. 37,906
Keith M. Tackett	Registration No. 32,008

### Send correspondence to:

Patent Counsel  
Applied Materials, Inc.  
P.O. Box 450-A  
Santa Clara, CA 95052

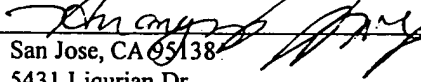
### Direct telephone calls to:

B. Todd Patterson  
THOMASON, MOSER & PATTERSON, L.L.P.  
(713) 623-4844

## DECLARATION

*I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.*

Full name of sole or first inventor: TZU-FANG HUANG

Inventor's signature:  Date: Aug 14th 00  
Residence: San Jose, CA 95138  
Post Office Address: 5431 Liqurian Dr.  
U.S.A.

Country of Citizenship: TAIWAN

Full name of second inventor: YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95117

Post Office Address: 3671 Greenlee Dr., #3  
U.S.A.

Country of Citizenship: TAIWAN

Full name of third inventor: LI-QUN XIA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95111

Post Office Address: 5358 Carryback Ave.  
U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor: ELLIE YIEH

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5888 Pistoria Way  
U.S.A.

Country of Citizenship: USA

Full name of fifth inventor: WAI-FAN YAU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Mountain View, CA 94040

Post Office Address: 158 Gretel Ln.  
U.S.A.

Country of Citizenship: USA

Full name of sixth inventor: DAVID W. CHEUNG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Foster City, CA 94404

Post Office Address: 235 Billingsgate Ln.  
U.S.A.

Country of Citizenship: USA

Full name of seventh inventor: RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Santa Clara, CA 95050

Post Office Address: 2250 Monroe St. #336  
U.S.A.

Country of Citizenship: GERMANY

Full name of eighth inventor: KUOWEI LIU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Campbell, CA 95008  
Post Office Address: 163 N. San Tomas Aquino Rd.  
U.S.A. Country of Citizenship: USA

Full name of ninth inventor: JU-HYUNG LEE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Campbell, CA 95008  
Post Office Address: 65 Shelley Ave.  
U.S.A. Country of Citizenship: SOUTH KOREA

Full name of tenth inventor: FARHAD K. MOGHADAM

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Saratoga, CA 95010  
Post Office Address: 15440 Via Colina  
U.S.A. Country of Citizenship: USA

Full name of eleventh inventor: YEMING JIM MA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Santa Clara, CA 95051  
Post Office Address: 3707 Poinciana Dr., #133  
U.S.A. Country of Citizenship: CHINA

(Declaration ends with this page)



**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

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**SPECIFICATION IDENTIFICATION**

The specification of which:

- ☐ is attached hereto
- ☒ was filed on 09/553461, under Serial No. April 19, 2000, executed on even date herewith;  
or
- ☐ Express Mail No.(as Serial No. not yet known)  
and was amended on \_\_\_\_\_ (if applicable)
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<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
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<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No
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Country:

Application No:

Filing date:

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Serial No.

Filing Date

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09/114,682	07/13/98		X	
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Lawrence Edelman	Registration No. 25,226
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Applied Materials, Inc.  
P.O. Box 450-A  
Santa Clara, CA 95052

B. Todd Patterson  
THOMASON, MOSER & PATTERSON, L.L.P.  
(713) 623-4844

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Full name of sole or first inventor: TZU-FANG HUANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: San Jose, CA 95138  
Post Office Address: 5431 Liqurian Dr.  
U.S.A. Country of Citizenship: TAIWAN

# COPY

Full name of second inventor: YUNG-CHENG LU

Inventor's signature: Yung-Cheng Lu

Date: 10/22/00

Residence:

Post Office Address:

San Jose, CA 95117 F.2 No.4 Ln.114 Sec.7 Chungshan N. Road

3671 Greenlee Dr. #3 Taipei, Taiwan, R.O.C.

U.S.A.

Country of Citizenship: TAIWAN

Y.-C. Lu

Full name of third inventor: LI-QUN XIA

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Post Office Address:

San Jose, CA 95111

5358 Carryback Ave.

U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor: ELLIE YIEH

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Post Office Address:

San Jose, CA 95138

5888 Pistoria Way

U.S.A.

Country of Citizenship: USA

Full name of fifth inventor: WAI-FAN YAU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Post Office Address:

Mountain View, CA 94040

158 Gretel Ln.

U.S.A.

Country of Citizenship: USA

Full name of sixth inventor: DAVID W. CHEUNG

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Post Office Address:

Foster City, CA 94404

235 Billingsgate Ln.

U.S.A.

Country of Citizenship: USA

Full name of seventh inventor: RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

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U.S.A.

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(Declaration ends with this page)

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			<input type="checkbox"/> Yes <input type="checkbox"/> No
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Application No:  
Filing date:

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Residence: San Jose, CA 95138

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U.S.A.

Country of Citizenship: TAIWAN



**COPY**

Full name of second inventor:

YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

San Jose, CA 95117

Post Office Address:

3671 Greenlee Dr., #3  
U.S.A.

Country of Citizenship: TAIWAN

Full name of third inventor:

LI-QUN XIA

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

San Jose, CA 95111

Post Office Address:

5358 Carryback Ave.  
U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor:

ELLIE YIEH

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

San Jose, CA 95138

Post Office Address:

5888 Pistoria Way  
U.S.A.

Country of Citizenship: USA

Full name of fifth inventor:

WAI-FAN YAU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Mountain View, CA 94040

Post Office Address:

158 Gretel Ln.  
U.S.A.

Country of Citizenship: USA

Full name of sixth inventor:

DAVID W. CHEUNG

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Foster City, CA 94404

Post Office Address:

235 Billingsgate Ln.  
U.S.A.

Country of Citizenship: USA

Full name of seventh inventor:

RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Santa Clara, CA 95050

Post Office Address:

2250 Monroe St. #336  
U.S.A.

Country of Citizenship: GERMANY

Full name of eighth inventor: KUOWEI LIU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Campbell, CA 95008  
Post Office Address: 163 N. San Tomas Aquino Rd.  
U.S.A. Country of Citizenship: USA

Full name of ninth inventor: JU-HYUNG LEE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Campbell, CA 95008  
Post Office Address: 65 Shelley Ave.  
U.S.A. Country of Citizenship: SOUTH KOREA

Full name of tenth inventor: FARHAD K. MOGHADAM

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Saratoga, CA 95010  
Post Office Address: 15440 Via Colina  
U.S.A. Country of Citizenship: USA

Full name of eleventh inventor: YEMING JIM MA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Santa Clara, CA 95051  
Post Office Address: 3707 Poinciana Dr., #133  
U.S.A. Country of Citizenship: CHINA

(Declaration ends with this page)

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**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

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**METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA**

**SPECIFICATION IDENTIFICATION**

The specification of which:

- ☐ is attached hereto
- ☒ was filed on April 19, 2000, under Serial No. 09/55346, executed on even date herewith;  
or
- ☐ Express Mail No.(as Serial No. not yet known)  
and was amended on \_\_\_\_\_ (if applicable)
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_  
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and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

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☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No.</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
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			<input type="checkbox"/> Yes <input type="checkbox"/> No

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Country:  
Application No:  
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
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09/162,915	09/29/98		X	
09/185,555	11/04/98		X	
09/247,381	02/10/99		X	

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Santa Clara, CA 95052

B. Todd Patterson  
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(713) 623-4844

### DECLARATION

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Full name of sole or first inventor: TZU-FANG HUANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5431 Liquirian Dr.  
U.S.A.

Country of Citizenship: TAIWAN

**COPY**

Full name of second inventor:

YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95117

Post Office Address: 3671 Greenlee Dr., #3  
U.S.A.

Country of Citizenship: TAIWAN

Full name of third inventor: LI-QUN XIA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95111

Post Office Address: 5358 Carryback Ave.  
U.S.A. Country of Citizenship: CHINA

Full name of fourth inventor: ELLIE YIEH

Inventor's signature: \_\_\_\_\_ Date: 7/31/00

Residence: San Jose, CA 95138

Post Office Address: 5888 Pistoria Way  
U.S.A. Country of Citizenship: USA

Full name of fifth inventor: WAI-FAN YAU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Mountain View, CA 94040

Post Office Address: 158 Gretel Ln.  
U.S.A. Country of Citizenship: USA

Full name of sixth inventor: DAVID W. CHEUNG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Foster City, CA 94404

Post Office Address: 235 Billingsgate Ln.  
U.S.A. Country of Citizenship: USA

Full name of seventh inventor: RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Santa Clara, CA 95050

Post Office Address: 2250 Monroe St. #336  
U.S.A. Country of Citizenship: GERMANY

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The specification of which:

- ☐ is attached hereto
- ☒ was filed on April 19, 2000, under Serial No. 09/553414, executed on even date herewith;  
or
- ☐ Express Mail No.(as Serial No. not yet known)  
and was amended on \_\_\_\_\_ (if applicable)
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_  
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Application No:  
Filing date:

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Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5431 Liqurian Dr.  
U.S.A.

Country of Citizenship: TAIWAN

**COPY**

Full name of second inventor: YUNG-CHENG LU

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Residence: San Jose, CA 95117  
Post Office Address: 3671 Greenlee Dr., #3  
U.S.A.

Country of Citizenship: TAIWAN

Full name of third inventor: LI-QUN XIA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95111  
Post Office Address: 5358 Carryback Ave.  
U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor: ELLIE YIEH

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138  
Post Office Address: 5888 Pistoria Way  
U.S.A.

Country of Citizenship: USA

Full name of fifth inventor: WAI-FAN YAU

Inventor's signature:  Date: July 20<sup>th</sup>, 2000

Residence: Mountain View, CA 94040  
Post Office Address: 156 Gretel Ln.  
U.S.A.

Country of Citizenship: USA

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U.S.A. Country of Citizenship: TAIWAN

**COPY**

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Post Office Address:

3671 Greenlee Dr., #3

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Residence:

San Jose, CA 95111

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5358 Carryback Ave.

U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor:

ELLIE YIEH

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

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Post Office Address:

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U.S.A.

Country of Citizenship: USA

Full name of fifth inventor:

WAI-FAN YAU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Mountain View, CA 94040

Post Office Address:

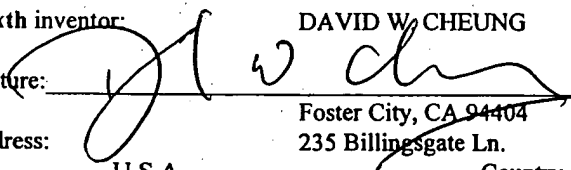
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Residence: Santa Clara, CA 95051

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U.S.A. Country of Citizenship: CHINA

(Declaration ends with this page)

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

**INVENTORSHIP IDENTIFICATION**

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**METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA**

**SPECIFICATION IDENTIFICATION**

The specification of which:

- ☐ is attached hereto
- ☒ was filed on April 19, 2000, under Serial No. 09/533 461, executed on even date herewith;  
or
- ☐ Express Mail No.(as Serial No. not yet known)  
and was amended on \_\_\_\_\_ (if applicable)
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_  
filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

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and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

**PRIORITY CLAIM (35 U.S.C. §119)**

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:  
Application No:  
Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
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09/162,915	09/29/98		X	
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Lawrence Edelman	Registration No. 25,226
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Send correspondence to:

Patent Counsel  
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P.O. Box 450-A  
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson  
THOMASON, MOSER & PATTERSON, L.L.P.  
(713) 623-4844

#### DECLARATION

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Full name of sole or first inventor: TZU-FANG HUANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: San Jose, CA 95138  
Post Office Address: 5431 Liquian Dr.  
U.S.A. Country of Citizenship: TAIWAN

# COPY

Full name of second inventor:

YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95117

Post Office Address: 3671 Greenlee Dr., #3

U.S.A.

Country of Citizenship: TAIWAN

Full name of third inventor:

LI-QUN XIA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95111

Post Office Address: 5358 Carryback Ave.

U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor:

ELLIE YIEH

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5888 Pistoria Way

U.S.A.

Country of Citizenship: USA

Full name of fifth inventor:

WAI-FAN YAU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Mountain View, CA 94040

Post Office Address: 158 Gretel Ln.

U.S.A.

Country of Citizenship: USA

Full name of sixth inventor:

DAVID W. CHEUNG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Foster City, CA 94404

Post Office Address: 235 Billingsgate Ln.

U.S.A.

Country of Citizenship: USA

Full name of seventh inventor:

RALF B. WILLECKE

Inventor's signature: Ralf Willecke Date: 7/20/00

Residence: Santa Clara, CA 95050

Post Office Address: 2250 Monroe St. #336

U.S.A.

Country of Citizenship: GERMANY

Full name of eighth inventor: KUOWEI LIU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Campbell, CA 95008  
Post Office Address: 163 N. San Tomas Aquino Rd.  
U.S.A. Country of Citizenship: USA

Full name of ninth inventor: JU-HYUNG LEE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Campbell, CA 95008  
Post Office Address: 65 Shelley Ave.  
U.S.A. Country of Citizenship: SOUTH KOREA

Full name of tenth inventor: FARHAD K. MOGHADAM

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Saratoga, CA 95010  
Post Office Address: 15440 Via Colina  
U.S.A. Country of Citizenship: USA

Full name of eleventh inventor: YEMING JIM MA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Full name of sole or first inventor: TZU-FANG HUANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5431 Liqurian Dr.  
U.S.A.

Country of Citizenship: TAIWAN

Full name of second inventor:

YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: San Jose, CA 95117

Post Office Address: 3671 Greenlee Dr., #3  
U.S.A.

Country of Citizenship: TAIWAN

Full name of third inventor:

LI-QUN XIA

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: San Jose, CA 95111

Post Office Address: 5358 Carryback Ave.  
U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor:

ELLIE YIEH

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5888 Pistoria Way  
U.S.A.

Country of Citizenship: USA

Full name of fifth inventor:

WAI-FAN YAU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Mountain View, CA 94040

Post Office Address: 158 Gretel Ln.  
U.S.A.

Country of Citizenship: USA

Full name of sixth inventor:

DAVID W. CHEUNG

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Foster City, CA 94404

Post Office Address: 235 Billingsgate Ln.  
U.S.A.

Country of Citizenship: USA

Full name of seventh inventor:

RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Santa Clara, CA 95050

Post Office Address: 2250 Monroe St. #336  
U.S.A.

Country of Citizenship: GERMANY

**COPY**

Full name of eighth inventor:

KUOWEI LIU

Inventor's signature: \_\_\_\_\_

Date: 7/25/2000

Residence:

Campbell, CA 95008

Post Office Address:

163 N. San Tomas Aquino Rd.

U.S.A.

Country of Citizenship: USA

Full name of ninth inventor:

JU-HYUNG LEE

Inventor's signature: \_\_\_\_\_

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65 Shelley Ave.

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U.S.A.

Country of Citizenship: USA

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(Declaration ends with this page)

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U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor:

ELLIE YIEH

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5888 Pistoria Way

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Country of Citizenship: USA

Full name of fifth inventor:

WAI-FAN YAU

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Residence: Mountain View, CA 94040

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Full name of sixth inventor:

DAVID W. CHEUNG

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Residence: Foster City, CA 94404

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- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

**PRIORITY CLAIM (35 U.S.C. §119)**

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
--------------------	-----------------------	-------------------	-------------------------

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:

Application No:

Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

Serial No.

Filing Date

**PRIORITY CLAIM (35 U.S.C. §120)**

I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

☐ No such applications have been filed

☒ Such applications have been filed, as follows:

Serial No.	Filing Date	Status		
		Patented	Pending	Abandoned
09/021,788	02/11/98		X	
09/114,682	07/13/98		X	
09/162,915	09/29/98		X	
09/185,555	11/04/98		X	
09/247,381	02/10/99		X	

#### POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Michael L. Sherrard	Registration No. 28,041
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Raymond R. Moser, Jr.	Registration No. 34,682
B. Todd Patterson	Registration No. 37,906
Keith M. Tackett	Registration No. 32,008

Send correspondence to:

Patent Counsel  
Applied Materials, Inc.  
P.O. Box 450-A  
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson  
THOMASON, MOSER & PATTERSON, L.L.P.  
(713) 623-4844

#### DECLARATION

*I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.*

Full name of sole or first inventor: TZU-FANG HUANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5431 Liquian Dr.  
U.S.A.

Country of Citizenship: TAIWAN

Full name of second inventor: YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95117

Post Office Address: 3671 Greenlee Dr., #3  
U.S.A.

Country of Citizenship: TAIWAN

Full name of third inventor: LI-QUN XIA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95111

Post Office Address: 5358 Carryback Ave.  
U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor: ELLIE YIEH

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5888 Pistoria Way

U.S.A.

Country of Citizenship: USA

Full name of fifth inventor: WAI-FAN YAU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Mountain View, CA 94040

Post Office Address: 158 Gretel Ln.

U.S.A.

Country of Citizenship: USA

Full name of sixth inventor: DAVID W. CHEUNG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Foster City, CA 94404

Post Office Address: 235 Billingsgate Ln.

U.S.A.

Country of Citizenship: USA

Full name of seventh inventor: RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Santa Clara, CA 95050

Post Office Address: 2250 Monroe St. #336

U.S.A.

Country of Citizenship: GERMANY

**COPY**

Full name of eighth inventor:

KUOWEI LIU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Campbell, CA 95008

Post Office Address: 163 N. San Tomas Aquino Rd.

U.S.A.

Country of Citizenship: USA

Full name of ninth inventor:

JU-HYUNG LEE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Campbell, CA 95008

Post Office Address: 65 Shelley Ave.

U.S.A.

Country of Citizenship: SOUTH KOREA

Full name of tenth inventor:

FARHAD K. MOGHADAM

Inventor's signature: Farhad moghada Date: 7/25/00

Residence: Saratoga, CA 95010

Post Office Address: 15440 Via Colina

U.S.A.

Country of Citizenship: USA

Full name of eleventh inventor:

YEMING JIM MA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Santa Clara, CA 95051

Post Office Address: 3707 Poinciana Dr., #133

U.S.A.

Country of Citizenship: CHINA

(Declaration ends with this page)

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD OF DEPOSITING LOW K FILMS USING AN OXIDIZING PLASMA

SPECIFICATION IDENTIFICATION

The specification of which:

- ☐ is attached hereto
- ☒ was filed on April 19, 2000, under Serial No. 09/553461, executed on even date herewith;  
or
- ☐ Express Mail No.(as Serial No. not yet known)  
and was amended on \_\_\_\_\_ (if applicable)
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_  
filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

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<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:  
Application No:  
Filing date:

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<u>Serial No.</u>	<u>Filing Date</u>
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09/185,555	11/04/98		X	
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U.S.A.

Country of Citizenship: TAIWAN



Full name of second inventor: YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95117

Post Office Address: 3671 Greenlee Dr., #3

U.S.A.

Country of Citizenship: TAIWAN

Full name of third inventor: LI-QUN XIA

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95111

Post Office Address: 5358 Carryback Ave.

U.S.A.

Country of Citizenship: CHINA

Full name of fourth inventor: ELLIE YIEH

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, CA 95138

Post Office Address: 5888 Pistoria Way

U.S.A.

Country of Citizenship: USA

Full name of fifth inventor: WAI-FAN YAU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Mountain View, CA 94040

Post Office Address: 158 Gretel Ln.

U.S.A.

Country of Citizenship: USA

Full name of sixth inventor: DAVID W. CHEUNG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Foster City, CA 94404

Post Office Address: 235 Billingsgate Ln.

U.S.A.

Country of Citizenship: USA

Full name of seventh inventor: RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Santa Clara, CA 95050

Post Office Address: 2250 Monroe St. #336

U.S.A.

Country of Citizenship: GERMANY

**COPY**

Full name of eighth inventor:

KUOWEI LIU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Campbell, CA 95008

Post Office Address: 163 N. San Tomas Aquino Rd.

U.S.A.

Country of Citizenship: USA

Full name of ninth inventor:

JU-HYUNG LEE

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Campbell, CA 95008

Post Office Address: 65 Shelley Ave.

U.S.A.

Country of Citizenship: SOUTH KOREA

Full name of tenth inventor:

FARHAD K. MOGHADAM

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Saratoga, CA 95010

Post Office Address: 15440 Via Colina

U.S.A.

Country of Citizenship: USA

Full name of eleventh inventor:

YEMING JIM MA

Inventor's signature:  Date: Sept 26, 2000

Residence: Santa Clara, CA 95051

Post Office Address: 3707 Poinciana Dr., #133

U.S.A.

Country of Citizenship: CHINA

(Declaration ends with this page)